

Differential Diagnosis of Wide Complex Tachycardias

- ⌘ Necessary for appropriate treatment
 - ☒ CCBs can be very bad in WPW
- ⌘ Based on correlation studies
- ⌘ Identify factors that favor one rhythm
- ⌘ Possibilities:
 - ☒ VT, SVT with aberrant conduction, Afib/Aflutter with aberrant conduction

Top 10 reasons for WCT*

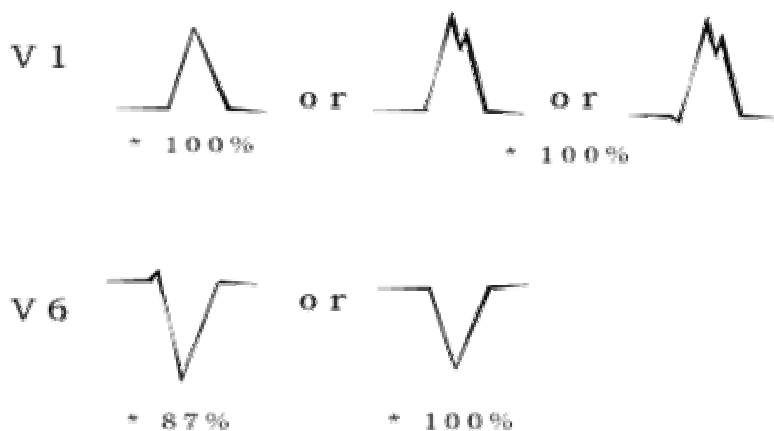
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|------------------------------|------------------------------------|
| ⌘ 1. Ventricular Tachycardia | ⌘ 6. VT |
| ⌘ 2. Ventricular Tach | ⌘ 7. VT |
| ⌘ 3. VT | ⌘ 8. VT |
| ⌘ 4. VT | ⌘ 9. SVT with preexisting BBB |
| ⌘ 5. VT | ⌘ 10. SVT with aberrant conduction |

* Ken Grauer. A Practical Guide to ECG Interpretation. 2nd

Factors Favoring VT

- ⌘ Concordance across all V leads (+/-)
- ⌘ ERAD axis deviation
- ⌘ QRS > .14 sec
- ⌘ AV dissociation
- ⌘ Suggestive QRS morphology

QRS Morphology Favoring VT



* Wellens HJJ, Kulbertus HE, eds. What's new in electrocardiology. Boston: Martinus Nijhoff, 1981: 184-199

QRS Morphology Favoring SVT with Aberrant Conduction

V1



* 100%

V6



* 100%

- * Gulamhusein S, Yee R, Ko PT, Klein GJ. Electrocardiographic criteria for differentiating aberrancy and ventricular extrasystole in chronic atrial fibrillation: validation by intracardiac recordings. J Electrocardiol 1985; 18:41